

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Application of: )  
)  
Minho SOHN et al. )  
) Group Art Unit: Unknown  
Application No.: To be assigned )  
)  
) Examiner: Unknown  
Filed: Concurrently herewith )  
)  
For: CESIUM VAPOR EMITTER AND )  
METHOD OF FABRICATING )  
THE SAME )

Commissioner for Patents  
Washington, D.C. 20231

Sir:

**PRELIMINARY AMENDMENT**

Prior to the examination of the above-identified application, please amend the  
above-identified application as follows:

**IN THE CLAIMS**

Please replace claims 25-34 with the following:

24. (Amended) The method according to claim 19, wherein the cesium pellet plug  
includes a cesium pellet.

25. (Amended) The method according to claim 24, wherein the cesium pellet  
includes a sintered cesium-mordenite.

26. (Amended) The method according to claim 25, wherein the sintered cesium-mordenite has a composition of  $\text{Cs}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 10\text{SiO}_2$ .

27. (Amended) A method of fabricating a stabilized cesium pellet, comprising:

mixing sodium-mordenite and cesium-chloride;

heating the mixed sodium-mordenite and cesium-chloride;

filtering the heated mixture through a vacuum frit;

drying a residual powder in a hot vacuum oven;

heating the dried powder high enough to stabilize a cesium-mordenite powder;

mixing the cesium-mordenite powder with liquid cesium under an anti-oxidant environment to form a mixture; and

sintering the mixture of cesium-mordenite powder and liquid cesium.

28. (Amended) The method according to claim 27, wherein the mixed sodium-mordenite and cesium-chloride are heated at about 80°C.

29. (Amended) The method according to claim 27, wherein the dried powder is heated at least at about 1050°C.

30. (Amended) The method according to claim 27, wherein the cesium-mordenite powder and the liquid cesium is mixed with the same amount by weight.

31. (Amended) A cesium slurry, comprising:

a first amount of cesium-mordenite powder; and

a second amount of liquid cesium,

wherein the first amount and the second amount are equal by weight.

32. (Amended) The cesium slurry according to claim 31, wherein the cesium-mordenite has a composition of  $\text{Cs}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 10\text{SiO}_2$ .

33. (Amended) The cesium slurry according to claim 31, wherein the cesium-mordenite is sintered.

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**Conclusion**

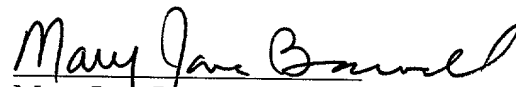
Prior to an examination of the application on the merits, Applicants respectfully request entry of this preliminary amendment. Claims 25-34, now renumbered as claims 24-33, respectively, have been amended to correct minor typographical errors. Applicants respectfully submit that the changes to the claims have not been made for any reason of patentability and do not narrow the scope of the claims. Thus, Applicants do not intend to relinquish any subject matter by this amendment.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attachment is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE."

If there are any other fees due in connection with the filing of this paper, please charge the fees to our Deposit Account No. 50-0310. If a fee is required for an extension of time under 37 C.F.R. § 1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Respectfully Submitted,

By:



Mary Jane Boswell

Reg. No. 33,652

Dated: January 30, 2002

**Customer Number 009629**

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202-730-3000

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

Claim 25 has been amended as follows:

~~{25}~~ 24. (Amended) The method according to claim 19, wherein the cesium pellet plug includes a cesium pellet.

Claim 26 has been amended as follows:

~~{26}~~ 25. (Amended) The method according to claim ~~{25}~~ 24, wherein the cesium pellet includes a sintered cesium-mordenite.

Claim 27 has been amended as follows:

~~{27}~~ 26. (Amended) The method according to claim ~~{26}~~ 25, wherein the sintered cesium-mordenite has a composition of  $\text{Cs}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 10\text{SiO}_2$ .

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Claim 28 has been amended as follows:

~~{28}~~ 27. (Amended) A method of fabricating a stabilized cesium pellet, comprising:

- mixing sodium-mordenite and cesium-chloride;
- heating the mixed sodium-mordenite and cesium-chloride;
- filtering the heated mixture through a vacuum frit;
- drying a residual powder in a hot vacuum oven;
- heating the dried powder high enough to stabilize a cesium-modernite powder;
- mixing the cesium-modernite powder with liquid cesium under an anti-oxidant environment to form a mixture; and
- sintering the mixture of cesium-modernite powder and liquid cesium.

Claim 29 has been amended as follows:

~~{29}~~ 28. (Amended) The method according to claim ~~{28}~~ 27, wherein the mixed sodium-mordenite and cesium-chloride are heated at about 80°C.

Claim 30 has been amended as follows:

~~{30}~~ 29. (Amended) The method according to claim ~~{28}~~ 27, wherein the dried powder is heated at least at about 1050°C.

Claim 31 has been amended as follows:

~~{31}~~ 30. (Amended) The method according to claim ~~{28}~~ 27, wherein the cesium-modernite powder and the liquid cesium is mixed with the same amount by weight.

Claim 32 has been amended as follows:

~~{32}~~ 31. (Amended) A cesium slurry, comprising:

a first amount of cesium-mordenite powder; and

a second amount of liquid cesium,

wherein the first amount and the second amount are equal by weight.

Claim 33 has been amended as follows:

~~{33}~~ 32. (Amended) The cesium slurry according to claim ~~{32}~~ 31, wherein the cesium-mordenite has a composition of  $\text{Cs}_2\text{O} \cdot \text{Al}_2\text{O}_3 \cdot 10\text{SiO}_2$ .

Claim 34 has been amended as follows:

~~{34}~~ 33. (Amended) The cesium slurry according to claim ~~{32}~~ 31, wherein the cesium-mordenite is sintered.